

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No: 50-374
License No: NPF-18

Report No: 50-374/96017(DRS)

Licensee: Commonwealth Edison Company

Facility: LaSalle County Station, Unit 2

Location: 2601 North 21st Road
Marseilles, IL 61341

Dates: October 22-23 and 25, 1996

Inspectors: D. Jones, Reactor Inspector

Approved by: W. J. Kropp, Chief, Engineering Branch 1
Division of Reactor Safety

REPORT DETAILS

II. Maintenance

M1 Conduct of Maintenance

M1.1 Observation of Inservice Inspection (ISI) Activities

a. Inspection Scope (73753, 73052, 73755)

The inspector observed work, HP practices, reviewed ISI procedures, personnel certifications and reviewed data associated with the following activities:

- General Electric Nuclear Energy (GE) personnel performing liquid penetrant examination (PT) and ultrasonic testing (UT) on the high pressure core spray (HPCS) safe end to reactor nozzle (N16) weld number HP-2001-26A.
- GE personnel performing ultrasonic equipment calibration for the examination of the HPCS nozzle N16 weld.

b. Observations and Findings

Vendor personnel (General Electric (GE)) performed ISI to the ASME, Boiler and Pressure Vessel Code, Section XI, 1989 Edition. Licensee activities observed were performed in accordance with applicable ASME Code requirements.

All applicable ISI procedures were approved by the ANI inspector and were reviewed by the NRC inspector. The ISI procedures were found to be acceptable and in accordance with ASME Code, Section V, 1989 Edition.

The inspector witnessed the PT and UT inspection of the high pressure core spray (HPCS) safe end to reactor nozzle (N16) weld number HP-2001-26A. Prior to the UT examination of HP-2001-26A, the GE technician discovered that the PT examination was performed in error on weld HP-2001-26B (safe end extension). Work was stopped, and an approximately 24-hour ISI standdown was held. During the ISI standdown, meetings were held between the inspection technicians, radiation technicians, and management to discuss factors which led to the PT exam of the wrong weld, and corrective actions to preclude the recurrence of the event and to improve the ISI program.

The inspector attended an ISI standdown meeting held to present the corrective actions, and to further solicit input on the proposed actions. The corrective actions included: using as-built drawings to locate welds by measurement, improving the lighting of the inspection area, and improving the labeling of the nozzle doors.

The inspector observed the re-inspection of the nozzle following the standdown, including the revised work package, which included weld location measurements, and significantly improved work area lighting.

c. Conclusions

The lack of specifying the weld location in the work package and the poor lighting of the inspection area was indicative of ineffective work planning and resulted in the wrong weld being examined. The inspector concluded that the licensee's corrective actions, along with better familiarization of workers with the weld location during a pre-job briefing, appeared to be sufficient to preclude recurrence.

M3 Maintenance Procedures and Documentation

M3.1 Inservice Inspection

a. Inspection Scope (73052, 73755)

The NRC inspector reviewed documents related to nondestructive examination (NDE) equipment, evaluations, and data associated with the following activities:

- Core shroud UT
- Shroud head hold down bolting UT examination
- Jet pump hold down beam UT examination

b. Observations and Findings

The examination data was found to be in accordance with the applicable ISI procedures and ASME Code requirements.

Core shroud UT was performed using EPRI performance demonstrated (PDI) ultrasonic equipment, in accordance with commitments made to Generic Letter (GL) 94-03, "Intergranular Stress Corrosion Cracking of Core Shrouds in Boiling Water Reactors." The inspector observed portions of the data evaluation by GE, which is ongoing and will be submitted to the NRC per the commitments made to GL 94-03.

The UT of 36 shroud head hold down bolts attached to the steam separator showed no indications of cracking. In addition, the UT examination of 20 jet pump hold down beams attached to the reactor pressure vessel showed no indications of cracking.

c. Conclusions

For the areas observed, NRC and ASME Code requirements were met and no violations or deviations were identified. Implementation of this portion of the ISI program appeared to be effective.

V. Management Meetings

X1 **Exit Meeting Summary**

The inspectors presented the results of these inspections to ComEd management listed below at an exit meeting on October 25, 1996. ComEd acknowledged the findings presented.

The inspector asked the licensee if any materials examined during the inspection should be considered proprietary. No proprietary information was identified.

PARTIAL LIST OF PERSONS CONTACTED

ComEd

- *D. Ray, Station Manager
- *M. Dougherty, Construction Superintendent
- *T. Jackson, Site Quality Verification
- *A. Kochis, ISI Coordinator
- *A. Javorik, System Engineer Manager
- *J. Drago, NRC Coordinator
- C. McKean, Deputy Level III UT Examiner (SMAD)

NRC

- *M. Huber, Senior Resident Inspector
- K. Ihnen, Resident Inspector
- H. Simons, Resident Inspector
- *M. Dapas, Branch Chief
- *D. Jones, Inspector

General Electric

- J. Easton, Project Manager
- H. Schlortt, Project Level III

*Present at exit meeting on October 25, 1996.

INSPECTION PROCEDURES USED

IP 73051: Inservice Inspection - Review of Program
IP 73052: Inservice Inspection - Review of Procedures
IP 73753: Inservice Inspection
IP 73755: Inservice Inspection - Data Review and Evaluation

LIST OF ACRONYMS USED

ASME	American Society of Mechanical Engineers
BWR	Boiling Water Reactor Plant
DRS	Division of Reactor Safety
EPRI	Electric Power Research Institute
GE	General Electric
GL	Generic Letter
IDNS	Illinois Department of Nuclear Safety
IR	Inspection Report
ISI	Inservice Inspection
L2RO7	LaSalle Unit 2 Refueling Outage 7
LAP	LaSalle Administrative Procedure
NDE	Non-destructive Examination
NRC	Nuclear Regulatory Commission
UT	Ultrasonic Testing
PDI	Performance Demonstration Initiative
PIF	Problem Identification Form
PDR	NRC Public Document Room
PT	Dye Penetrant Test